CLAIMS

1. (currently amended) A method for depositing an iron oxide coating on a glass article by atmospheric pressure chemical vapor deposition in an on-line float glass process, comprising:

providing a heated glass substrate having a surface on which the coating is to be deposited;

directing ferrocene and an oxidant toward and along the surface to be coated to form a gaseous precursor mixture; and

reacting the precursor mixture at or near the surface of the glass substrate to form an iron oxide coating,

wherein the iron oxide coating formed thereby is primarily in the form of Fe_2O_3.

2. (original) The method according to claim 1 further comprising providing an inert carrier gas with the ferrocene and oxidant.

3. (original) The method according to claim 1 wherein the oxidant is oxygen gas.

4. (original) The method according to claim 1 further comprising cooling the coated glass article to ambient temperature.

5. (original) The method according to claim 2, wherein the inert carrier gas comprises at least one of helium and nitrogen.

6. (original) The method according to claim 1 wherein the iron oxide layer is deposited at a rate of greater than or equal to about 200 Å/sec.

7. (original) The method according to claim 2, wherein the gas phase ferrocene concentration is in the range of about 0.1 to about 5.0%.

8. (original) The method according to claim 2, wherein the gas phase ferrocene concentration is in the range of about 0.3 to about 3.0%.

9. (original) The method according to claim 2, wherein the gas phase ferrocene concentration is in the range of about 0.6 to about 2.5%.

10. (original) The method according to claim 2, wherein the gas phase oxidant concentration is about 1 to about 50%.

11. (original) The method according to claim 2, wherein the gas phase oxidant concentration is about 3 to about 40%.

12. (original) The method according to claim 2, wherein the gas phase oxidant concentration is about 5 to about 35%.

13. (original) The method according to claim 1, wherein the deposited iron oxide coating as a thickness between about 300 and about 700 Å

14. (original) The method according to claim 2, further comprising dissolving the ferrocene in a solvent.

15. (canceled)

16. (currently amended) A method of utilizing ferrocene in an atmospheric pressure chemical vapor deposition process which occurs in an on-line float glass process to form an iron oxide layer primarily comprising Fe_2O_3 on a substrate, wherein the ferrocene and an oxidant are mixed and delivered to the substrate for use in the chemical vapor deposition process, ~~and wherein the iron oxide layer is primarily Fe_2O_3~~ and wherein an additional coating is applied between the iron oxide coating and the substrate.

17. (original) The method according to claim 16 comprising depositing an iron oxide layer on the substrate at a rate of greater than or equal to about 200 Å/sec.

18. (original) The method according to claim 16, wherein the iron oxide layer has a thickness between about 300 and about 700 Å.

19. (original) The method according to claim 16, wherein the deposited iron oxide layer has a thickness between about 400 and about 650 Å.

20. (original) The method according to claim 16, wherein the deposited iron oxide layer has a thickness between about 500 and about 625 Å.

21-26. (canceled)

27. (previously presented) The method according to claim 16, wherein the article formed thereby is an architectural glazing.

28. (previously presented) The method according to claim 1, wherein the coated article formed thereby is an architectural glazing.

29. (new) The method according to claim 1, further comprising depositing an additional coating between the iron oxide coating and the substrate.